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APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,284	08/31/2001	Jon A. Casey	FIS920010127US1 (IFI-10-5	1893
29037	7590 10/10/2003		EXAM	INER
DRIGGS, LUCAS, BRUBAKER & HOGG CO. L. P. A. DEPT IFI 8522 EAST AVENUE			HARAN, JOHN T	
			ART UNIT	PAPER NUMBER
MENTOR, C	MENTOR, OH 44060		1733	

DATE MAILED: 10/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

•	•	Application No.	Applicant(s)			
Office Action Summary		09/944,284	CASEY ET AL.			
		Examiner	Art Unit			
		John T. Haran	1733			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status 1)⊠	Responsive to communication(s) filed on 27 A	wayst 2003				
2a)⊠		is action is non-final.				
3)	<i>'</i> =					
Disposition of Claims						
4)⊠	4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-9</u> is/are rejected.					
7)	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	(PTO-413) Paper No(s) Patent Application (PTO-152)			

#### **DETAILED ACTION**

1. This office action is in reply to the amendments and arguments filed on 8/27/03.

## Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bross et al (U.S. Patent 5,517,751) in view of Kawakita et al (U.S. Patent 5,817,404) and Pommer (U.S. Patent 6,560,844).

The body of the rejection can be found in Paragraph 4 of the office action mailed on 6/4/03 (Paper #3).

## Response to Arguments

4. Applicant's arguments filed 8/27/03 have been fully considered but they are not persuasive.

Applicant argues that while Kawakita et al teaches filing vias with conductive paste, it does not suggest filling the vias of Bross et al with conductive paste. However, this argument is not found persuasive.

Bross et al teaches filling via openings in subcomposite structures with metal so that it extends beyond the subcomposite structures surfaces (See Figure 3). Similarly Kawakita et al teaches filling via openings in subcomposite structures with conductive paste so that it extends beyond the subcomposite structures surfaces (See Figure 3b). One skilled in the art would have readily appreciated that the vias must be filled with conductive material and that metal and curable conductive paste are alternate

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expedients that are obvious over one another. One skilled in the art would have readily appreciated using an obvious alternate material for the via filling such as curable conductive paste in the method of Bross et al.

#### Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John T. Haran** whose telephone number is **(703) 305-0052**. The examiner can normally be reached on M-Th (8 - 5) and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (703) 308-3853. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

PRIMARY EXAMINER GROUP 1300